



September 24, 2007

Joint Interoperability Test Command  
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Attn: Shawn Smith & CPT Heyman  
Subject: Cisco 4500 Switch IPv6 Compliance

To whom it may concern,

Cisco Systems, Inc. has reviewed the DoD IPv6 Standard Profiles For IPv6 Capable Products Version 2.0, 15-Jun-2007 and has used this as the basis for the Layer 3 Switch requirements for this Letter of Compliance.

The following platforms, as part of the product family identified in the table below, are compliant to the RFC list that immediately follows the product table.

| Product Family                               | Platforms  |
|--|--|
| Cisco Catalyst 4500<br>( <i>SEE NOTE 1</i> ) | Cisco Cat 4503 with Supervisor 6-E<br>Cisco Cat 4503-E with Supervisor 6-E<br>Cisco Cat 4506 with Supervisor 6-E<br>Cisco Cat 4506-E with Supervisor 6-E<br>Cisco Cat 4507R with Supervisor 6-E<br>Cisco Cat 4507R-E with Supervisor 6-E<br>Cisco Cat 4510R with Supervisor 6-E<br>Cisco Cat 4510R-E with Supervisor 6-E |

**NOTE 1:**

*The Cisco Catalyst 4500 Switches C4503, C4503-E, C4506, C4506-E, C4507R, C4507R-E, C4510R and C4510R-E are architecturally equivalent, so only one will be tested on behalf of the Catalyst 4500 product family.*

The listed platforms are compliant to the Layer 3 Switch RFC's below based on IOS version 12.2(40)SG or later.

In the RFC list below, a √ is used to show support for the RFC.

**Layer 3 Switch IPv6 Conformance Checklist**

**IPv6 Base**

- √ RFC 1981 Path MTU Discovery for IPv6
- √ RFC 2460 Internet Protocol v6 (IPv6) Specification
- √ RFC 2461 Neighbor Discovery for IPv6

- ✓ RFC 2462 IPv6 Stateless Address Auto-configuration or RFC 3315 Dynamic Host Configuration Protocol for IPv6 (DHCPv6) or both.
- ✓ RFC 4007 IPv6 Scoped Address Architecture
- ✓ RFC 4193 Unique Local IPv6 Unicast Addresses
- ✓ RFC 4291 IP Version 6 Addressing Architecture
- ✓ RFC 4443 Internet Control Message Protocol (ICMPv6)

#### **Multicasting**

- ✓ RFC 2710 Multicast Listener Discovery (MLD) for IPv6
- ✓ RFC 3810 Multicast Listener Discovery Version 2 (MLDv2) for IPv6

#### **Connection Technologies**

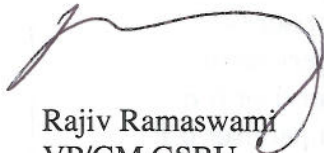
*(Required support for at least one of the below)*

- ✓ RFC 2464 Transmission of IPv6 Packets over Ethernet Networks
- RFC 2467 Transmission of IPv6 Packets over FDDI Networks
- RFC 2472 IP Version 6 over PPP
- RFC 3572 IPv6 over MAPOS (Multiple Access Protocol over SONET/SDH)

#### **Network Management**

- ✓ RFC 3411 An Architecture for Describing Simple Network Management Protocol Version 3 (SNMPv3)
- ✓ RFC 3412 Message Processing and Dispatching for the SNMP
- ✓ RFC 3413 SNMP Applications

Sincerely,



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